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MINISTRY OF THE ENVIRONMENT

# TOWNSHIP OF SMITH, WOODLAND ACRES AND BRIDGENORTH SUBDIVISION AREAS

## GROUND WATER SURVEY

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P. F. McKenna, P. Eng.

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Township of Smith, Woodland Acres and Bridgenorth subdivision areas / McKenna, P. F.

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MINISTRY OF THE ENVIRONMENT

# TOWNSHIP OF SMITH, WOODLAND ACRES AND BRIDGENORTH SUBDIVISION AREAS

## GROUND WATER SURVEY

P. F. McKenna, P. Eng.

1973

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# MINISTRY OF THE ENVIRONMENT

## TOWNSHIP OF SMITH
## WOODLAND ACRES AND BRIDGENORTH
## GROUND WATER SURVEY

### INTRODUCTION

At the request of the Project Development Branch, the Water Quantity Management Branch carried out a ground-water survey in the Bridgenorth, Woodland Acres subdivision areas in the Township of Smith. The objective of the survey was to evaluate local ground-water conditions and to locate test-drilling sites where municipal well-water supplies could be developed if ground-water conditions were found to be favourable.

The study was confined to an area within a three-mile (4,8 Km) radius of Bridgenorth and Woodland Acres. The field work consisted of the examination of geologic and topographic features, and the collection of well-water samples from selected wells for chemical analysis.

Water-well records are summarized in Table 1. Well locations were not field checked. The well numbering system used in this report relates to the permanent coding numbers of the Ministry of the Environment.

### PRESENT SUPPLIES

Most residents within the Township of Smith obtain water for domestic, industrial, and agricultural use from dug and drilled wells which terminate in the overburden or the bedrock.

The Woodland Acres subdivision obtains water from the City of Peterborough via a temporary connection. Until recently, water was obtained from a communal well-water supply system comprising a total of five production wells of which four have been located in Figure 2. In 1969, Hydrology Consultants Limited evaluated the well field potential and reported on ground-water conditions in the Woodland Acres area. The consultant concluded that:

(1) The existing wells were poorly constructed and rehabilitation would be required to make them efficient.

(2) The hydrogeologic conditions of the area were not favourable for the construction of high-capacity wells.

(3) The aquifer was fully developed and no further wells should be constructed in the area.

(4) The perennial yield of the aquifer was approximately 50 gpm (327 $m^3$/day).

WATER REQUIREMENTS

According to the Sanitary Engineering Branch of the Ministry, the present populations of the Bridgenorth and Woodland Acres areas are 1500 and 808, respectively. It is estimated that the populations will increase to 2780 and 2080, respectively, by the end of the 20-year design period. Assuming a maximum-day to average-day demand ratio of 2 to 1 and an average daily consumption of 100 gallons (0,46 $m^3$) per capita, well-water supplies capable of

yielding 195 gpm (1280 $m^3$/day) on a perennial basis and 390 gpm (2560 $m^3$/day) on a short-term basis should be developed for Bridgenorth, and 145 gpm (950 $m^3$/day) and 290 gpm (1900 $m^3$/day) for Woodland Acres. Storage would be required to meet peak hourly and fire-flow demands.

## GEOLOGY

### Bedrock

The Township of Smith is underlain by flat-lying Ordovician limestone of the Trenton-Black River Group. The rocks consist of bioclastic limestone and interbedded argillaceous limestone that grade upwards into aphanitic limestone and thin beds of grey calcareous shale.

The bedrock outcrops only along the Otonabee River. The strata dip gently in a southwesterly direction at about 25 feet to the mile (5 m per km). The surface of the bedrock appears to be gently undulating. There were insufficient well-log data to determine whether there are any bedrock depressions of hydrogeologic importance in the Bridgenorth and Woodland Acres areas.

### Overburden

#### General

The Township of Smith is located in the physiographic division called the Peterborough Drumlin Field by Chapman and Putnam.[1] The overburden consists primarily of

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1. Chapman, L.J., and Putnam, D.F., Physiography of Southern Ontario, Toronto, University of Toronto Press, 1966, 386 p.

Pleistocene deposits and some Recent sediments. Much of the area is covered by glacial ground moraine which is composed of till containing more than 50 per cent sand and gravel. In a few areas, interstratified lenses of sand and gravel are found in the till.

The drumlins within the study area are erosional in origin and were formed by the moulding of the ground moraine. The drumlins are oriented north 20 degrees east which suggests that they were formed by ice that moved in from the north-east.

Two esker systems trend in a southwesterly direction parallel to the direction of ice movement. The size and the length of the eskers vary, however, where the eskers narrow the material is noticeably coarser in grain size. The eskers are not continuous and gaps were formed as a result of increasesin flow velocity along the esker channel.

Bridgenorth

As shown in Figure 1, an esker with a length of approximately 12 miles (19 km) trends through Bridgenorth and ends in Chemung Lake. At Bridgenorth the esker forms part of the shoreline of the lake and extends inland for a distance of about one mile (1,5 km). At its point of highest elevation, the esker is approximately 100 feet (31 m) above

the level of Chemung Lake. There are insufficient well-log data to determine the thickness of the deposit, however, at Fife Bay, 2.5 miles (4 km) south of Bridgenorth, the deposit is approximately 70 feet (21m) thick.

North of Bridgenorth the esker is about one-half mile wide (0,8 km) and 75 feet (23 m) thick. A section exposed in a gravel pit contained a core of coarse gravelly channel deposits flanked by stratified sand and gravel, silt, and varved clay.

In general, the thickness of the overburden in the Bridgenorth area varies from 10 to 116 feet (3 to 35 m). The overburden in most areas is thin except where the eskers and drumlins occur.

Woodland Acres

From Woodland Acres an esker trends south-west into the City of Peterborough. The esker varies in height from 15 to 30 feet (5 to 9 m), and has a width of about 50 feet (15 m). The materials exposed in an excavation located south of the production wells comprised a very coarse gravel with pebbles and cobbles. Varved clays and silts were observed in exposures at the edges of the pit. The depth to which the coarser materials extend beneath the floor of the excavation is unknown, however, since the bedrock outcrops along the Otonabee River 800 feet (240 m) east of the site and the floor of the excavation

is approximately 25 feet (7,6 m) higher in elevation than the river, then up to 25 feet of the sand and gravel may be expected.

The Woodland Acres Subdivision production wells are located at the north end of the esker. The overburden in the area of the production wells is approximately 50 feet (15 m) thick and comprises grey clay and gravel overlying a water-bearing fine to coarse gravel which is up to 20 feet (6 m) thick.

## HYDROGEOLOGY

### Bedrock

Some of the water wells completed in the Township of Smith obtain potable water supplies from the bedrock. The wells seldom penetrate into the rock beyond a depth of 10 to 15 feet (3 to 5 meters). Where wells have been drilled to greater depths, they do not appear to produce significantly larger water supplies than the shallower wells.

The specific capacities of the bedrock wells varied from less than 1.0 to 6.7 gpm/ft. of drawdown (21 to 144 $m^3$/day/m). About 87 per cent of the bedrock wells examined had specific capacities less than 1.0 gpm/ft. of drawdown (21 $m^3$/day/m) which is an indication of the generally poor water-yielding properties of the bedrock.

### Overburden

#### Bridgenorth

Wells constructed in the overburden in the

Bridgenorth area obtain supplies from interstratified sand and gravel lenses in the ground moraine and drumlins, and from the coarse sands and gravels of the esker deposit.

At Bridgenorth there are insufficient data to determine the thickness of the esker or whether the deposit extends beneath the waters of Chemung Lake. Topographic and well-log data obtained from wells located east of Bridgenorth indicate that the bedrock surface may be at the same elevation as the lake. However, the logs of bore holes drilled by Dominion Soils Investigation Ltd. in a soil investigation for the construction of the causeway bridge and approaches north of Bridgenorth, indicate that the elevation of the bedrock surface is approximately 760 feet. As the elevation of Chemung Lake is 807 feet, the overburden may extend to a depth of 47 feet (14 m) beneath the lake.

Most wells in the Bridgenorth subdivision appear to obtain sufficient water from the surficial sands and gravels of the esker deposit. Well records are not available for these wells. This deposit has relatively large areal extent and it is estimated that the area of available recharge is over one square mile. The rate of recharge to the aquifer from precipitation would likely be high because the formation is unconfined and permeable.

At Fife Bay most wells are shallow and are completed in the surficial sands and gravels of the esker deposit. From well-log and topographic data, the static water level of the wells appears to be approximately at or near the elevation of Chemung Lake. The aquifer appears to be under water-table conditions and may be hydraulically connected to the lake. Therefore, with pumping of a well, it may be possible to induce infiltration from the lake. In the log of well 3654, the well driller reported encountering up to 47 feet (14,4 m) of sand and gravel and the completed well had 28 feet (8.5 m) of available drawdown. If the elevation of the bedrock surface is in the order of 760 feet as at Bridgenorth, then an additional 19 feet (9.1 m) of formation is available for development. The elevation of the bedrock surface may be less than 760 feet since well log date indicate that the surface slopes in a southwest direction.

A map of the potentiometric surface was prepared from topographic and well-log data. The map indicates that the direction of ground-water flow east of Bridgenorth is toward Snelgrove Creek. The sand and gravel deposits which flank the creek are topographically high and are well drained. The thickness of the deposits in the valley of Snelgrove Creek is unknown but they are probably thin, possibly in the order of 20 feet (6,1 m).

The specific capacities of all the overburden wells in the Township of Smith varied from less than 1.0 to 10.0 gpm/ft. of drawdown (21 to 215 $m^3$/day/m) and averaged 1.3 (28). Over 32 per cent of the overburden wells had specific capacities greater than 1.0 gpm/ft. of drawdown (21 $m^3$/day/m), and the specific capacities of the wells completed in the esker deposit at Fife Bay were all over 2.0 gpm/ft. of drawdown (44 $m^3$/day/m) and averaged 4.4 (95).

Woodland Acres Subdivision

Geologic and well-log data, and the drawdown curves of the pumping tests carried out on the subdivision's production wells indicate that the esker deposit is laterally confined by strong negative boundaries. The yield of the production wells is reduced by these boundary conditions and by the limited available drawdown in the wells. The static water level in the production wells is approximately 20 feet (6 m) below ground surface and the depth to the top of the aquifer is approximately 30 feet (9 m).

From the available hydrogeologic data the aquifer within Woodland Acres appears to be fully developed. Additional low-capacity wells might be developed in the esker within the City of Peterborough to the west of the Peterborough filtration plant. However, the site is located within an area serviced by the City water-works system.

West of Woodland Acres, ground-water conditions in both the bedrock and the overburden appear to be generally unfavourable for the development of large-capacity wells. Well-log data indicate the area is underlain by a thin basal sand and gravel which may have the potential to yield up to 10 to 20 gpm (65 to 130 $m^3$/day) to individual wells.

## WATER QUALITY

Water samples were collected from selected wells to determine the chemical quality of the ground water in the overburden and bedrock aquifers that underlie the study area. The results of the analyses are listed in Table 2.

The analytical data were plotted graphically to segregate the sources of dissolved ions in the ground water, to determine whether changes in the chemistry of the ground water occur as it moves through an area, and to locate related geochemical problems. The data indicated that the general chemical quality of the well-water samples collected from both overburden and bedrock wells met the water-quality objectives of the Ministry of the Environment.

The chloride concentration in well 3606 (280 ppm) exceeded the Ministry's objective of 250 ppm. The source of the contaminant was not investigated but may be

related to road salting in the area.

The concentration of nitrate as N did not exceed the Ministry's water-quality objective of 10 ppm (mg/litre) in all of the wells sampled, however, many of the concentrations reported are relatively high and likely indicate contamination of the ground water by either septic tank effluent and/or chemical fertilizers.

Waters from the shallow bedrock wells and the overburden wells are chemically similar. However, experience in other areas suggests that the quality of the water obtained from the bedrock may become poorer with depth.

FAVOURABLE TEST DRILLING AREA

On the basis of the available hydrogeologic data, those areas near Bridgenorth, shown in Figure 1, appear to be favourable for testing. Test wells drilled in these areas should penetrate the entire thickness of the overburden. Drilling into the bedrock beyond a depth of 10 to 20 feet (3 to 6 m) is not recommended because of the generally poor yield characteristics of the rock aquifers and the possibility that poorer quality may be encountered at depth.

COST ESTIMATE OF TEST DRILLING

It is estimated that up to 10 test holes will be required to adequately evaluate the potential of the

aquifers to yield large supplies of water.

The estimated cost of the test-drilling program is $17,000. The cost is summarized as follows:

| | |
|---|---|
| Mobilization and demobilization | $ 700 |
| Moving and setting up | 3,500 |
| Drilling overburden | 4,300 |
| Development | 1,800 |
| Pumping tests | 5,100 |
| Casing and associated materials | 1,000 |
| Additional funds | 600 |
| Total | 17,000 |

The additional funds in the estimate are to cover the cost of items not directly associated with test drilling, such as property options, ingress, and egress facilities, and temporary restoration of those well-water supplies which may be interrupted during drilling or test pumping.

CONCLUSIONS

It may be concluded that:

(1) Ground-water conditions in the three areas near Bridgenorth that are outlined in Figure 1 appear to be sufficiently favourable to warrant test drilling.

(2) Supplies of ground water might be developed from sand and gravel aquifers in the Bridgenorth area.

(3) The sand and gravel aquifer in the vicinity of the Woodland Acres production wells has been fully developed.

(4) South of the Woodland Acres well field in the City of

Peterborough, an additional well supply of low yield may be developed in the bedrock or in the sand and gravel of the esker deposit.

(5) The existing production wells at Woodland Acres could be rehabilitated and with proper well management the aquifer could yield up to 50 gpm (327 $m^3$/day) to wells.

(6) Wells capable of yielding 10 to 20 gpm (65 to 130 $m^3$/day) might be developed in a thin sand and gravel deposit overlying the bedrock west of Woodland Acres.

(7) The quality of the ground water from the sand and gravel deposits in the Township of Smith appears to be acceptable for municipal purposes.

(8) The chemical quality of the ground water in both the overburden and bedrock aquifers may change with heavy pumping.

RECOMMENDATIONS

It is recommended that:

(1) A sum of $17,000 be provided for any test drilling program carried out at Bridgenorth.

(2) Any test-drilling program for Bridgenorth be carried out in the areas outlined in the report.

(3) Extended pumping tests be carried out on any test wells encountering favourable formation to determine the hydraulic properties of the aquifer, the amount of interference with nearby wells, and the changes in

chemical water quality with respect to pumping time.

(4) The necessity for treatment of the water should be determined from the results of the chemical analyses of the well-water samples collected during the testing of the wells.

(5) In accordance with Ministry policy, it will be necessary to provide for the restoration of water supplies to residents outside the serviced area whose wells are affected by the operation of any new municipal well to such a degree that an adequate supply cannot be obtained by means of a shallow or deep well pump.

(6) Test drilling not be carried out at Woodland Acres because of low yield of both the bedrock and the overburden aquifers and that alternate sources of water supply be considered.

Report by:

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Approved by:

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Surveys and Projects Section,
Water Quantity Management Branch.

PFM/af

9/3/73

# TABLE OF SYMBOLS

## SURVEYS AND PROJECTS BRANCH

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- Test hole.
- Drilled well in overburden.
- Drilled well in bedrock.
- Abandoned drilled well or well site in overburden.
- Abandoned drilled well or well site in bedrock.
- Flowing drilled well in overburden.
- Flowing drilled well in bedrock.
- Abandoned flowing drilled well or well site in bedrock.
- Abandoned flowing drilled well or well site in overburden.
- Bored or dug well.
- Abandoned bored or dug well or well site.
- Well point.
- Abandoned well point or well-point site.
- Drilled municipal well in overburden.
- Drilled municipal well in bedrock.
- Flowing drilled municipal well in overburden.
- Flowing drilled municipal well in bedrock.
- Abandoned drilled municipal well in overburden.
- Abandoned drilled municipal well in bedrock.
- Abandoned flowing drilled municipal well or well site in overburden.
- Abandoned flowing drilled municipal well or well site in bedrock.
- Spring.
- Depth at which water found.

# DIVISION OF WATER RESOURCES

## SURVEYS AND PROJECTS BRANCH

## STANDARD ABBREVIATIONS

### Materials

Bldr - boulders
Cl - clay
Gr - gravel
Hp - Hardpan
Pbl - pebble
Qsd - quicksand
Sd - sand
Slt - silt
Stns - stone(s)
Ts - topsoil
Cht - chert
Dol - dolomite
Gte - granite
Gnst - greenstone
Ls - limestone
Rk - rock & bedrock
Sh - shale
Sdst - sandstone
Qtz - quartz

### Water Use

Ab - abandoned
C - commercial
D - domestic
In - industrial
Irr - irrigation
M - municipal
P - public supply
S - stock
Th - test hole
Tw - test well

### Description

Cem - cemented
Cln - clean
Clr - clear
Cly - clayey
Cse - coarse
Dk - dark
Dty - dirty
Lt - light
F - fine
Fr - fresh
Gry - gravelly
Med - medium
Hd - hard
Lay - layer(s)
Lse - loose
Lge - large
Min - mineral
Sa - salty
Sdy - sandy
Shy - shaly
Slty - silty
Sm - small
Sf - soft
Str - streak(s)
Sty - stony
S - sulphur
Bf - buff
Bk - black
Bl - blue
Bn - brown
Gn - green
Gy - grey
Pk - pink
W - water or waterbearing
Wh - white
Yl - yellow
Ob - overburden

AREA OF SURVEY PETERBOROUGH

COUNTY PETERBOROUGH.

P1

# ONTARIO WATER RESOURCES COMMISSION

## TABLE OF WATER WELL RECORDS

TABLE 1

DATE Mar 1/72

RECORDER SS-SSON

| Well No | Location Glen | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -A' 3795 | SMITH TWP 825 | V | 6 | GOLDSMITH GERALD | 2116 66 | | 6 | 63 | 12 | 4 | 55 | FR | D | 0 tsl cl28 cl,sd 62 * 62 62 lo 63 |
| 3704 | 970 | IV | 7 | ELLIS D. | 4713 64 | | 6 | 98 | 78 | 3 | 94 | FR | D | 0 cl, bldr 45 sd, cl 94 * 98 94 gr 98 |
| 3595 | 965 | III | 7 | WHITNELL WATER | 2116 66 | | 6 | 147 | 35 | 12 | 113 | FR | D | 0 tsl cl, gr, stns 146 * 146 146 cse sd 147 |
| 3454 | 790 | I | 6 | ONT. HYDRO - PETERB | 2801 50 | | 8 | 124 | 17 | - | - | - | - | 0 gr, bldr 6 gr 28 gr, cl 31 * - 31 cl, slt, sd 48 f sd 52 sd, slt, bldr 63 63 gr 84 rock 124 |
| 3458 | 805 | I | 7 | ATKISON DON | 1904 66 | | 6 | 85 | 19 | 30 | 55 | FR | D | 0 cl stns 20 cl, gr 46 * 83 46 sd, slt, cl 83 cse sd, gr 85 |
| 2339 | MONAGHAN TWP 825 | XIII | 6 | CAMPBELL F. | 2113 62 | | 6 | 90 | 25 | 10 | 50 | FR | ST D. | 0 tsl cl, stns 8 cl, sd, stns 89 89 gr 90 |
| 2260 | 900 | XII | 7 | BRALEY SCHOOL | 2113 65 | | 6 | 168 | 118 | 5 | 162 | FR | PS | 0 previously drilled 119 * 160. 119 cl, stns 140 cl, gr, sd 168 |
| 2239 | 860 | XII | 6 | DORAN F. | 2113 60 | | 6 | 23 | 2 | 9 | 10 | FR | D. | 0 fill, cl, sd 4 tss * 23 5 cl, sd, gr 22 sd, gr 23 |
| -B' 4111 | SMITH TWP 975 | IX | 18 | GROSE H. | 4713 60 | | 6 | 60 | 12 | 15 | 50 | FR | D | 0 tsl cl, stns 40 cl 58 * 60 58 gr 60 |
| 4012 | 850 | VII | 18 | SMITH TWP | 2116 66 | | 6 | 29 | 11 | 50 | 25 | FR | ST | 0 cl, sd 4 sd, bldr 13 * 27 18 cl, bldr 27 gr 29 |
| 4013 | 865 | VII | 19 | MACCOURT WM. | 3532 61 | | 6 | 48 | 10 | 1 | 48 | FR | D | 0 cl, hp 48 * 48. |
| 3873 | 675 | VI | 19 | HARRISON MEL | 4713 61 | | - | 26 | 8 | 2 | 22 | FR | D | 0 Dug 12 lo 26 * 12. |

ONTARIO WATER RESOURCES COMMISSION

AREA OF SURVEY PETER BOROUGH

COUNTY PETER BOROUGH

P2

# TABLE OF WATER WELL RECORDS

DATE Mar/72

RECORDER S.S.S.S.

| Well No | Location | CON | LOT | Owner | Driller | | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3865 | SMITH TWP 88C | VI | 18 | COCKBURN MERYL | 2113 | 64 | ● | 6 | 59 | 40 | 8 | 48 | FR | D S | O OVG 42 cl, bldr 57 57 gr, sd 58 lk 59 * 57 |
| 3811 | 900 | V | 18 | FAULKNER HOWARD | 2116 | 66 | ● | 6 | 30 | 5 | 30 | 10 | FR | D | O to 3 cl 12 cl, bldr 29 29 lk 30 * 30 |
| 3813 | 915 | V | 19 | BOYCE KEN | 4713 | 64 | ● | 6 | 47 | 15 | 7 | 35 | FR | D | O Ts 2 cl stns 45 45 gr 47 * 47 |
| 3717 | 925 | IV | 18 | MCKEE L. | 2113 | 61 | ● | 6 | 62 | 25 | 4 | 54 | FR | S D | O Ts 1 cl, bldr 42 42 sd, gr 46 lk 62 * 60 |
| 3747 | 580 | IV | 19 | PUBLIC SCHOOL | 4713 | 59 | ● | 8 | 99 | 25 | 15 | 80 | FR | PS | O Ts 2 cl, stns 95 gr 98 98 lk 99 * 99 |
| 3282 | 872 | V | 10 | COVE F. | GRANTHESEN | 64 | ● | 6 1/4 | 30 | 12 | 8 | 20 | FR | D | O cl 2 sdy gr 12 cl, sd 28 28 gr 30 * 30 |
| 3274 | 925' CRW | IV | 7 | GILMOUR MEM. CHURCH | STOCKDALE | 62 | ● | 6 1/4 | 56 | 24 | 3 1/3 | 48 | FR | D | O OVG 34 sd, gr, stns, cl 55 55 gr 56 * 55-56 |
| 3343 | 900 CRE | IV | 12 | BLEWETT HARRY | CTONABEE | 59 | ● | 6 1/4 | 135 | 31 | 8 | 121 | FR | D | O sdy cl 6 cl, bldr 64 64 cl 130 gr 132 lk 135 * 132 |
| 3430 | 925 | III | 12 | PRESBYTERIAN CHURCH | GRANTHESEN | 64 | ● | 6 1/4 | 60 | 20 | 10 | 50 | FR | D P | O Ts 2 cl stns 45 cl 58 58 sdy gr 60 * 60 |
| 3658 | 930 | IV | 2 | SHAUGHNESSY J | 2113 | 56 | ● | 6 | 111 | 22 | 8 | 89 | FR | D | O fill, cl 4 Ts 5 cl, sd 16 16 sd 45 cl, sd 85 sd, gr 110 gr 111 * 111 |
| 5062 | 945 | III | 3 | OLIPHANT ROSS | 4713 | 69 | ● | 6 | 174 | 70 | 15 | 120 | FR | D | O cl, stns 106 cl, sd 172 172 gr 174 * 174 |
| 4838 | 955 | IV | 4 | GONZALEZ | 4814 | 69 | ● | 6 | 116 | 90 | 10 | 92 | FR | D | O Ts 1 cl, stns 10 F sd 40 cl 65 65 sd 110 cl, sd, gr 116 * 110 |

ONTARIO WATER RESOURCES COMMISSION

AREA OF SURVEY PETERBOROUGH

COUNTY PETER BOROUGH

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# TABLE OF WATER WELL RECORDS

DATE 1 Mar / 72

RECORDER SSissON

| Well No | Location | Con | Lot | Owner | Driller | | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3706 | SMITH TWP 920 | IV | 8 | SCOTT ROLAND | 4713 | 60 | ● | 6 | 96 | 36 | 5 | 90 | FR | D | 0 ts 2 cl, bldr 60 60 cl, stns 94 gr, sd 96 | * 96 |
| 3606 | 920 | III | 10 | ANDREWS M | 4713 | 65 | ● | 6 | 66 | 30 | 40 | 50 | FR. | IND | 0 ts 2 cl, stns 62 62 gr, sd 64 gr 66 | * 66 |
| 3611 | 885 | III | 17 | McCONNELL PAUL | 4713 | 61 | ● | 6 | 73 | 22 | 10 | 50 | FR | D | 0 dug 27 cl, stns 65 65 cl, gr 73 | * 73 |
| 3725 | 890 | IV | 18 | SMOOK B.B | 4713 | 62 | ● | - | 47 | 6 | 30 | 30 | FR | D | 0 dug 20 cl, stns 45 45 gr 47 | * 47 |
| 3730 | 850 | III | 19 | WOODLAND ACRES SUB | 2113 | 58 | ● | 6 | 135 | 18 | 5 | 125 | FR | D | 0 fill 1 cl 2 + cl 68 68 sd, stns 70 sh 74 74 lb 135 | * 70 |
| 3635 | 770 | III | 20 | WOODLAND ACRES SUB | 2113 | 58 | ● | 22 | 20 | 8 | 56 | 16 | FR | D | 0 ts 1 sd stns 6 cl, sd, stns 11 11 sd, gr 18 cl 20 | * 13 |
| 3450 | 825 | I | 2 | PACKER WILLIAM | 4814 | 58 | ● | | 88 | 22 | 3 | 80 | FR | D S | 0 DUG 21 cl, stns 35 35 gr 70 gr, sd 88 | * 70 |
| 3453 | 825 | I | 5 | BONNEAU JOHN | 4814 | 63 | ● | | 75 | 26 | 10 | 45 | FR. | D | 0 Dug 26 sd 30 cl, stns, gr 72 72 sd, gr 75 | * 72 |
| 3461 | 850 | I | 8 | LEVITT GEORGE | 2116 | 66 | ● | 6 | 85 | 30 | 5 | 83 | FR | D | 0 ts 1 cl, stns 80 80 sd, gr 85 | * 80 |
| 3469 | 810 | I | 9 | POMEROY CURTIS | 4713 | 63 | ● | 6 | 85 | 20 | 10 | 25 | FR | D | 0 ts 2 cl, stns 83 83 gr, sd 85 | * 78 |
| 3470 | 840 | I | 10 | PIERCY BILL | 4713 | 62 | ● | 6 | 106 | 80 | 8 | 90 | FR | D | 0 ts 2 cl, stns 102 102 lb 106 | * 106 |
| 3509 | 815 | I | 11 | SUPERTEST PETER | 4713 | 59 | ● | 6 | 120 | 24 | 3 | 115 | FR | D COM | 0 fill 4 cl, stns 18 sd 30 30 cl 70 sd 85 lb 120 | * 120 |

ONTARIO WATER RESOURCES COMMISSION

AREA OF SURVEY PETERBOROUGH DATE Mar/72

P4. COUNTY PETERBOROUGH

# TABLE OF WATER WELL RECORDS

RECORDER SISSON

| Well No. | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SMITH TWP | | | | | | | | | | | | | |
| 3756 | 725 | IV | 22 | YOUNG GORDON | 2327 52 | ● | 5 | 29 | 8 | 3 | 19 | FR | D | O cl, bldr 6 lig 6 29 * 29 |
| 4112 | 850 | IV | 18 | CLARK EARLS | 4713 55 | ● | - | 104 | 16 | 15 | 60 | FR | S | O DUG 14 6 104 * 104 |
| 4757 | 825 | IV | 15 | FOWLER M. | 1904 69 | ● | 6 | 44 | 12 | 5 2 | 40 | FR. | D | O TS2 cl, gr 18 6 44 * 19 |
| 4612 | 820 | IV | 15 | PAYNE S | 2104 68 | ● | 6 | 34 | 10. | 10 2½ | 20. | FR. | D | O TS1 cl 8 gr, sd 23 * 32 23 gr, sd, cl 31 634 |
| 4077 | 835 | VIII | 15 | JAMESON H. | 4713 57 | ● | 6 | 25 | 13 | 2 1½ | 20 | FR. | D | O TS2 cl, stns 12 gr, sd 19 * 25 19 6 25. |
| 5514 | 540 | VII | 14 | PRATT L. | 4761 68 | ● | 6 | 45 | 10 | 2 2 | 40 | FR | D | O cl 5 clay 25 6 45 * 41 |
| 4066 | 815 | VIII | 13 | BRENNAN C | 4713 57 | ● | 6 | 31 | FLOW | 40 2. | 20 | FR | D | O 62 cl 30 gr 31. * 31 |
| 4081 | 925 | VII | 16 | JENNINGS SIDNEY | 4713 62 | ● | . | 71 | 15 | 10 2 | 50 | FR. | D | O DUG 25 cl, stns 70 gr 71 * 71 |
| 4082 | 840 | VII | 17 | WOODFORD V.R. | 2116 67 | ● | 6 | 80 | 12 | 1 2 | 80 | FR | D | O DUG 18 cl 54 6 80 * 18. |
| 4085 | 900 | VIII | 23 | HAWES A. | 3113 57 | ● | 6 | 125 | 20 | - 3 | 125 | FR | D | O cl, sh 8 6 125 * 88 |
| 4084 | 900 | VII | 23 | BELL E | 2113 67 | ● | 6 | 65 | 10 | - 2 | 65 | FR | D | O TS1 cl, bldr 23 gr, sd 24 * 45 24 6 65 |
| 4101 | 850 | VII | 25 | AHERN DAVE | 1814 67 | ● | 6 | 37 | 16 | 3 2 | 32 | FR | D | O TS1 cl, sh 3 6 37 * 24 |

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# ONTARIO WATER RESOURCES COMMISSION
## TABLE OF WATER WELL RECORDS

DATE Mar /72
RECORDER S. Sisson

| Well No | Location | CON | LOT | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4060 | SMITH TWP 815 | VII | 28 | McKEEVER MAT | 4713 | | 6 | 26 | 12 | 1 20 | 15' | FR | D | 0 Sh, gr 20 lb 26 * 26 |
| 4047 | 830 | VII | 26 | HEAD N P | 3532 | | | 79 | 38 | 2 - | 79 | FR. | D | 0 DUG19 cl, hp 24 24 lb 79 * 40 |
| 4024 | 810 | VII | 25 | McLEAN BRYCE | 1404 | | 6 | 80 | 10 | 1 5 | 70 | FR | D | 0 cl, stns 60 cl, gr 65 65 cl 70 lb 80 * 60 75' |
| 4018 | 855 | VII | 24 | VANDERWELL DIRK | 4713 | | 6 | 25 | 12 | 1 10 | 15 | FR | D | 0 cl 2 sh N lb 25' * 25 |
| 4017 | 830 | VII | 24 | OLIVER L.W. | 3532 | | - | 88 | 15 | 2 1 | 88 | FR | D | 0 DUG15 cl, hp 25 25 lb 88 * 40. |
| 4016 | 860 | VII | 22. | LOWENBERG FRANK | 2116 | | 6 | 58 | 28 | 2 1 | 57 | FR | D | 0 DUG 29 cl, stns 41 41 lb 58 * 30 |
| 4011 | 815 | VII | 16. | BARNETT QWC | 3532 | | 6 | 120 | 49 | 2 15 | 120 | FR | D S | 0 TS1 cl, hp 62 lb 120 * 90 |
| 4007 | 910 | VII | 14 | UNGER D | 4713 | | 6 | 48 | 5 | 2 8 | 30 | FR | D | 0 TS2 cl, stns 40 lb 48 * 48 |
| 4008 | 895 | VII | 14 | UNGER F | 4713 | | 6 | 120 | 6 | 2 3 | 115' | SUL | D | 0 DUG 20 cl, stns 87 87 cl 120 * 87 120. |
| 4002 | 860 | VII | 13 | SANLIN BUILDERS LTD | 4814 | | 6 | 66 | 10 | 3 14 | 25' | FR | D | 0 cl, stns 10 cl 60 60 cl, sd, gr 64 lb 66 * 60 |
| 3917 | 815 | VII | 12 | NICHOLLS THEODORE A. | 4713 | | 6 | 60 | 4 | 2 5 | 40 | FR. | D | 0 TS2 cl, sd, stns 52 52 lb 60 * 60. |
| 3860 | 875 | VII | 12 | BRIDGEWORTH SCHOOL | 2116 | | 6 | 52 | 27 | 4 20 | 46 | FR | PS | 0 TS1 cl, Wtr 38 gr 42 42 lb 52 * 41 |

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# ONTARIO WATER RESOURCES COMMISSION
## TABLE OF WATER WELL RECORDS

DATE Mar / 72
RECORDER SSIMSON

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| Well No. | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3879 | SMITH TWP 875 | VI | 22 | MAYHOOD RON. | 4713 62 | ● | - | 42 | 9 | 20 1 | 15 | FR. | D S | O DUG 15 cl, stns 34 34 to 42 * .42 |
| 3896 | 825 | VI | 25 | PARIS JOHN | 3515 60 | ● | 6 | 54 | 15 | 5 1 | 15 | FR. | D | O cl, stns do to 54. * 54 |
| 3903 | 850 | VI | 26 | BURNINGHAM WALTER E | 2116 67 | ● | 6 | 129 | 13 | 1 1 | 120 | FR. | D | O t/cl 11 cl, stns 31 to 129 * 61 |
| 3832 | 800 | V | 24 | WALKER L. | 2113 55 | ● | 6 | 43 | 3- | 2 1 | 38 | Fe. | O | O Ts, stns 10 cl 12 to 43 * 43 |
| 3827 | 835 | V | 22 | GRAHAM CARL. | 4814 63 | ● | 6 | 90 | 20 | 1 2 | 86 | FR | D S | O cl, stns 8 to 90 * 50 |
| 3819 | 918 | V | 21 | TRUDE GEORGE | 3515 53 | ● | 6 | 76. | 20 | 3 1 | - | PR | D | O Ts 3 to 76 * 76 |
| 3806 | 925 | V | 17 | SHARP Q | 4713 66 | ● | 6 | 136 | 34 | 4 3 | 126 | FR | D S | O Sz cl, stns 47 sd 77 77 cl, sd 96 cl stns 122 122 to 136 * 136 |
| 3895 | 895 | V | 16 | LITTLE ELWOOD | 2113 58 | ● | 6 | 66. | 12 | 8 4 | 58 | FR. | D S | O DUG 2 cl, stns 2 3 sd 42 42 cl, stns 45 cl. sd stns 64 64 gr, sd 66 * 64 |
| 3804 | 950 | V | 14 | BULMER A. | 2113 63 | ● | 6 | 147 | 70 | 4 8½ | 80 | FR | D | O ts 1 cl, blarl cl. sd, gr 64 64 d 83 cl, sd 134 cl 146 146 gr 147 * 146 |
| 3803 | 915 | V | N | MURPHY JOHN | 2113 60 | ● | 6 | 152 | 20 | 5 5 | 145 | fe | D S | O BLUE 116 f sd 122 122 to 152 * 140 |
| 3707 | 925 | IV | 14 | PARSONS -1. | 4713 58 | ● | 6 | 96 | 40 | 20 2 | 85 | PR | D | O DUG 22 cl, sd 85 85 sd, stns 96 * 96 |
| 3733 | 890 | IV | 18 | SMITH D.V. | 1904 63 | ● | 6 | 39 | 8 | 30 ⅔ | 21 | FR | D | O cl, 6 dr 29 cl, gr 35 35 cse sd 39 * 36 |

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# ONTARIO WATER RESOURCES COMMISSION
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RECORDER S SISSON

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| Well No. | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3728 | SMITH TWP 890 | IV | 18 | CORBETT DON | 1904 67 | ● | 6 | 38 | 3 | 4 30 | 10 | FR | D | O cl,stns 6 cl,gr 31. 31 f.sd 36 gr 38 * 36 |
| 3731 | 815 | IV | 20 | BROWN ROSS | 2116 67 | ● | 6 | 60 | 4 | 5 2 | 58 | FR | D | O t/l cl, stns 14 lo60 * 12 |
| 3766 | 875 | IV | 22 | PASSMORE | 2113 60 | ● | - | 112 | 85 | 3 - | - | FR | D | O Dug 33 cl,gr 43 43 gr, sd 59 lo 112 * 59 |
| 3754 | 785 | IV | 22 | NOBLE | 2327 52 | ● | 5 | 26 | 16 | - 2 | 22 | FR | D | O cl 11 sh 14 lo 26 * 26 |
| 3649 | 725 | III | 21 | CURTIS CLIFF | 4713 58 | ● | - | 49 | 11 | 1 2 | 48 | FR | D | O Dug 14 lo 49 * 49 |
| 3644 | 775 | III | 20 | WOODLAND ACRES | 2113 60 | ● | 10 | 50 | 14 | 9 40 | 30 | FR | MUN | O t sl cl, sd, stns 20 gr, sd 24 24 cl gr 39 gr, sd 43 lo 50 * 24 43 |
| 3638 | 725 | III | 20 | FOSTER DAVE | 2113 60 | ● | 6 | 123 | 21 | 1½ 1 | 123 | FR | COM. | ● cl, stns 12 cl, gr 18 18 lo 123 * 59 |
| 3621 | 845 | III | 18 | STARR GERALD | 4713 67 | ● | 6 | 70 | FLOW | ½ 30 | 10 | FR | D | C t s2 cl, stns 69 gr 70 * 70 |
| 5119 | 850 | III | 18 | FAULKNER H. | 2104 70 | ● | 6 | 111 | 50 | 2 2 | 107 | FR | D | O Drilled 51 gr, sd, cl 97 97 sh. sd, gr 102 lo 111 * 106 |
| 3612 | 845 | III | 17 | BROOKS L. | 2113 64 | ● | 6 | 34 | FLOW | 2 5 | 25 | FR | D | O t/l cl 8 cl, sd, gr 21 21 cl, stns 27 gr, sd 33 33 gr 34 * 33 |
| 3610 | 840 | III | 17 | HEARD G. | 2113 61 | ● | 6 | 65 | 12 | 4 1 | 65 | FR | D | O b/l cl, stns 50 f/sd, stns 58 58 sh, b, gr 61 lo 65 * 61 |
| 3609 | 900 | III | 16 | PECONI S | 4713 53 | ● | - | 98 | 37 | 2 12 | 80 | FR | S | O Dug 55 cl, sd, stns 97 97 gr, sd 98 * 97 |

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# TABLE OF WATER WELL RECORDS

DATE Mar / 72

RECORDER S. SISSON

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| Well No | Location | Con | Lot | Owner | Driller | | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SMITH TWP | | | | | | | | | | | | | | | |
| 3608 | 920 | III | 15 | FALLIS HUGH. | 2116 | 66 | ● | 6 | 130 | 47 | 8 (2) | 120 | FR. | D | O Ts1 cl, bldr 30 cl 110 110 cl, bldr 126 sd 130 | * 126 |
| 3573 | 675 | V | 17 | RIEDAL J.R | 218 | 55 | ● | 6 | 40 | 2 | 1 (2) | 3 | FR. | D | O to 2 gr, sd, sh 11 l 40 | * 40 |
| 3344 | 925 | CRE | 8 | DOUGLAS A. | | 50 | ● | 5 | 93 | 12 | 13 (6) | 52 | FR. | D | O to 2 cl 92 gr 93 | * 92 93 |
| 3348 | 925 | CRE | 8. | TELFORD ELMER | | 62 | ● | 6 | 72 | 40 | 10 (3) | 47 | FR. | D S | O DUG 29 cl, gr 45' * 45 cl. 65 gr, sd 72 | * 65 72 |
| 3349 | 860 | CRE | 10 | DESCHAMP M. | | 60 | ● | 6 | 37 | 13 | 8 (7) | 26 | FR. | D | O ts1 sd 28 sdy gl, gr 36 36 gr 37 | * 57 |
| 4019 | 935 | VI | 8 | COLLINS GEORGE | 1904 | 68 | ● | 6 | 21 | 9 | - (1) | 20 | FR. | D | O DUG 10 l 21 | * 10 |
| 3856 | 850 | V | 8 | NOLAN V.A. | 2116. | 67 | ● | 6 | 147 | DRY | - | - | - | - | O ts1 cl, stns 64 to 147 | * - |
| 4629 | 875 | VI | 8. | HEIDEMAN A. | 2104 | 68 | ● | 6 | 100 | 5 | 4 (4) | 95 | FR. | D | O ts1 cl, stns 8 gr, sd 20 20 gr, sd, cl 68 l, sh 69 69 l 100 | * 69 |
| 3800 | 945 | V | 8 | HAWKINS D | 2501 | 56 | ● | 6 | 89 | 61 | 3 (1) | 69 | FR. | D | O sd 79 to 89 | * 89 |
| 3799 | 975 | V | 8 | ENGLISH ROSS | 4713 | 53 | ● | 6 | 56 | 30 | 18 (4) | 42 | FR | D S | O DUG 44 cl, sd, stns 55' 55 gr 56 | * 54 |
| 3798 | 940 | V | 7 | WESTLAKE C | 4713 | 59 | ● | - | 54 | 20 | 10 (4) | 23 | FR. | D S | O DUG 20 cl sd 40 sd 45 cl. 50 gr, sd 54 | * 54 |
| 3797 | 895 | V | 7 | M°CANN I | 2501 | 56 | ● | 6 | 68 | 28 | 5 (1) | 58 | FR | D | O sd 53 to 68 | * 68 |

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# ONTARIO WATER RESOURCES COMMISSION

## TABLE OF WATER WELL RECORDS

DATE Mar /72

RECORDER S. Sisson

| Well No | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3796 | SMITH TWP 825 | V | 7 | EPHGRAVE DONALD | 4713 46 | ● | 5 | 39 | 6 | 5 3 | 33 | FR | D | o cl, sd odor 1 35' gr 39 *6. |
| 3792 | 825 | V | 6 | JONES W.H. | 2116 65 | ● | 6 | 75 | 24 | 5 3 | 65 | FR. | D | o to 1 cl, stns 66 to 75 * 70 |
| 3794 | 830 | V | 5 | MEINHARDT L | 2116. 67 | ● | 6 | 71 | 30 | 2 1. | 62 | FR. | D | o to 1 cl, stns 32 cl, gr 70 70 to 71 *. 70 |
| 3788 | 825 | V | 5 | GROOMBRIDGE L. | 4713 59 | ● | 6 | 61 | 8 | 5 2 | 50 | FR. | D | o to 2 cl, stns 20 cl 58 58 to 61 * 61 |
| 3790 | 825 | V | 5 | HORTON R | 4713 64 | ● | 6 | 42 | 3 | 20 1 | 20 | FR | D | o to 2 cl, stns 12 cl 40 to gr 42 *42 |
| 3785 | 825 | V | 4 | HOLT M. | 2113 64 | ● | 6 | 18 | 4 | 10 3 | 10 | FR. | D | o DUG 5 od 16 gr 18 * 16. |
| 3784 | 845 | V | 3 | SIBLEY R.H | 2116 67 | ● | 6 | 43 | 22 | 30 2 | 28 | FR. | D | o DUG 5 gr cl 3 * 40 |
| 3693 | 850 | IV | 3 | ROGELJ FRANK. | 4713 67 | ● | 6 | 45 | 30 | 10 2. | 35 | FR. | D | o to 2 cl, gr cl 3 gr 45 *. 45 |
| 3664 | 825 | IV | 2 | HATLON D | 4713 59 | ● | 6 | 29 | 15 | 40 2 | 19 | FR | D | o to 2 od 26 gr 29 * 29 |
| 3654 | 850 | IV | 1 | GORDON B | 4814 62 | ● | 6 | 45 | 17 | 16 2 | 20 | FR | D | o to 1 cl, sd, stns 20 20 gr 45 *. 40 |
| 3655 | 850 | IV | 1 | GRIMSTITCH C | 2113 64 | ● | 6 | 58 | 38 | 4 2 | 50 | FR | D | o to 1 cl, stns 52 cl, gr 57 57 to 58 * 56 |
| 3662 | 825 | IV | 2 | PITTS HOMES | 2113 58 | ● | 6 | 47 | 25 | 20 | 29 | FR | D | o DUG 27 ca cl, gr 47 *47 |

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# TABLE OF WATER WELL RECORDS

DATE Mar/72

RECORDER S. SISSON

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| Well No | Location | CON | LOT | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3674 | SMITH TWP 850 | IV | 2 | SHAUGNESSY R. | 4713 | 63 | ● | - | 92 | 30 | 5 (1) | 85 | FR | PS | DUG 12 cl, stns 64 64 & 92 * 92 |
| 3689 | 830 | IV | 3 | PITTS HOMES | 2113 | 58 | ● | 6. | 31 | 10 | 20 (2) | 10 | FR | D | 0 & 2 ca sd, gr 31 * 51 |
| 3691 | 940 | IV | 3 | IRWIN J.H. | 2113 | 64 | ● | 6 | 107 | 97 | 5 (3) | 100 | FR | D S | 0 DUG 30 ft sd 48 48 cl 80 gr 107 * 100. |
| 3692 | 815 | IV | 3 | KLASSEN H. | 4713 | 65 | ● | 6 | 38 | 4 | 3 (2) | 32 | FR. | D | 0 gr, fill 2 cl 6 cl, stns 36 36 sd 37 cl 38 * 36 |
| 3186 | 825 | V | 4 | KNOTT ART | 4713 | 65 | ● | 6 | 65 | 30 | 5 (2) | 60 | FR. | D | 0 & 2 cl, bldr 48 48 cl 61 lo, 65 * 65 |
| 4929 | 935 | IV | 10 | KIDD RUSSELL | 2104 | 69 | ● | 6 | 107 | 47 | 10 (2) | 65 | FR | D | 0 DUG 31 cl, sd, stns 46 46 cl, sd, gr 87 gr sd 105 105 gr 107 * 107 |
| 3607 | 850 | III | 11 | EDMISON JOHN | 4814 | 59 | ● | . | 38 | 11 | 7 (3) | 24 | FR. | D S | 0 DUG 33 sd, gr 38 * 33 |
| 3600 | 900 | III | 9 | NEAL C B | 4713 | 59 | ● | 8 | 96 | 18 | 20 (3) | 70. | FR | D S | 0 & 2 bldr, cl 35 cl 94 94 gr 96 * 96 |
| 3599 | 900 | III | 9 | NEAL C B | 4713 | 59 | ● | 8 | 96 | 18 | 15 (5) | 76 | FR | D S | 0 & 2 cl, stns 92 92 lo 96 * 96 |
| 3596 | 925 | III | 8 | MOORE C E | 4713 | 56 | ● | 6 | 87 | 17 | 20 (4) | 50 | FR | D S | 0 DUG 22 cl 85 gr 87 * 87 |
| 3580 | 925 | III | 4 | MANN WM. | 4713 | 69 | ● | 6 | 194 | 128 | 20 | 165 | FR | D | 0 & 2 cl, bldr 35 cl 90 90 sa 120 cl 170 gr, sd 194 * 194 |
| 3585 | 950 | III | 5 | JENKINS E.H. | 2116 | 66 | ● | 6 | 38 | 15 | 6 | 34 | FR. | D | 0 & 1 cl, bldr 19 sd, gr 22 22 cl, sd, stns 38 * 19 |

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# ONTARIO WATER RESOURCES COMMISSION
## TABLE OF WATER WELL RECORDS

DATE Mar 72
RECORDER S. SISSON

| Well No | Location | Con | Lot | Owner | Driller | | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SMITH TWP | | | | | | | | | | | | | | | |
| 3581 | 925 | III | 4 | DARLING RON | 1904 | 62 | ● | 6 | 102 | 24 | 4. 20 | 60 | FR | D S | O tg 98 gr 102 | * 98 |
| 3578 | 950 | III | 3 | MCADAM ROBERT | 2116 | 66 | ● | 6 | 61 | 30 | 2 6 | 53 | FR | D | O tg 1 cl, sd. 7 f sd/bldr 58 58 sd 61 | * 58 |
| 3579 | 940 | III | 3 | YOUNG NEWTON W | 2116 | 67 | ● | 6 | 123 | 108 | 3 10 | 108 | FR | D | O tg 1 f sd 83 cl, sd 118 118 gr 123 | * 120 |
| 3536 | 915 | II | 1 | BREWDA KALMAN | 4814 | 66 | ● | 6 | 118 | 50 | 5 10 | 80 | FR | D | O tg 1 cl, stns 30 cl 85 85 cl, sd 115 gr 118 | * 115 |
| 3534 | 900 | II | 1 | FOWLER HARRY | 4814 | 62 | ● | 6 | 136 | 50 | 4 3 | 126 | FR | D S | O tg 1 cl, stns 15 cl, stns, gr 126 126 gr 136 | * 50 |
| 4857 | 890 | II | 2 | STOCKDALE S. | 4814 | 69 | ● | 6 | 100 | 48 | 3. 14 | 60 | FR | D S | O tg 1 cl, stns 60 gr, sd, cl 75 75 cl, stns, gr 90 gr 94 to 100 | * 90 |
| 3540 | 835 | II | 4 | MOES JOHN P. | 4814 | 66 | ● | 6 | 85 | 23 | 3 5 | 73 | FR | D | O DUG, 21 cl, stns 70 70 cl. gr 78 coarse sd, gr 85 | * 78 |
| 3541 | 820 | II | 5 | TULLY EVERETT | 4814 | 58 | ● | 6 | 81 | 27 | 4 3 | 73 | FR | D S | O DUG, 27 cl, stns 75 gr 80 80 to 81 | * 81 |
| 3543 | 840 | I | 7 | STEINKRAUSS FRED | 4814 | 59 | ● | 6 | 149 | 70 | 10 8 | 100 | FR | D | O tg 1 cl 30 cl, gr, stns 65 65 f sd 68 cl 112 cl, gr 145 145 to 149 | * 144 |
| 3546 | 815 | II | 10 | HANCOCK A. | 4713 | 50 | ● | 6 | 112 | 30 | 2 3 | 92 | FR | D S | O DUG, 40 cl, sd, stns 110 110 gr 112 | * 112 |
| 3556 | 855 | II | 10 | WILLIAMS J | 4713 | 59 | ● | 6 | 38 | 3 | 3 20 | 20 | FR | D | O tg 2 cl, stns 34 34 gr, sd 38 | * 38 |
| 3519 | 850 | I | 12 | CLEARY LEO | 4814 | 60 | ● | 6 | 166 | 50 | 10 10 | 130 | FR | D | O cl, stns 20 gr 55 cl, gr 115 115 cl 125 cl, gr 150 to 166 | * 160 |

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# TABLE OF WATER WELL RECORDS

DATE Mar /72

RECORDER S. Sisson

| Well No. | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SMITH TWP | | | | | | | | | | | | | |
| 3518 | 840 | I | 12 | HAYNES | 4814 60 | ● | 6 | 108 | 45 | 3 7 | 94 | FR | D | 0 to 1 cl clay 35 cl gr 47 47 sd gr 52 Qsd 95 95 sd gr 100 sh, lo 108 * 102 |
| 3477 | 800 | I | 11 | VALLEY VIEW COOP | 4713 54 | ● | 6 | 54 | 35 | 2 20 | 40 | FR | D | 0 to 2 cl, stns 2 cl 35 35 sd 45 els 53 gr 54 * 54 |
| 3467 | 850 | I | 9 | COCKS WM | 4713 62 | ● | - | 134 | 40 | 2 10 | 110 | FR. | D | 0 DUG 30 cl, stns 123 123 to 134 * 134 |
| 3464 | 805 | I | 9 | MARK T W | 4814 58 | ● | 6 | 113 | 38 | 4 6 | 100 | FR | D S | 0 to 2 cl, Stns 30 cl, sd 40 40 to sd 98 sd, gr 108 108 to 113 * 108 |
| 3455 | 780 | I | 6 | ONT HYDRO | 2801 53 | ● | 8 | 66 | - | - | - | - | - | 0 to 1 cl, sh, sd 5 gr 11 11 cl, gr 27 sd, sh 41 gr 45 45 gr, cl 62 to 66 * - |
| 3456 | 800 | I | 6 | ONT HYDRO | 2801 50 | ● | 8 | 85 | DRY | - | | DRY | - | 0 to 1 cl, bldr 18, cl gr 51 51 cl, sd, sh 73 gr 82 82 to 85 * - |
| | MONAGHAN TWP | | | | | | | | | | | | | |
| 2316 | 840 | XIII | 1 | WALKER M. | 1415 63 | ● | 6 | 170 | 48 | 10 10 | 68 | FR. | D S | 0 cl, bldr 80 cl 83 83 to sd. 168 gr 170 * 170 |
| 2320 | 855 | XIII | 2 | MCCALL R | 4713 61 | ● | - | 103 | 35 | 2 15 | 70 | FR | D | 0 DUG 35 cl, stns 101 101 gr 103 * 103 |
| 2323 | 875 | XIII | 3 | BRUCE J.H. | 4814 59 | ● | - | 161 | 65 | 4 17 | 100 | FR | D | 0 DUG 72 cl, gr 98 Qsd 158 158 gr 161 * 158 |
| 2324 | 815 | XIII | 5 | DORAN GA. | 2113 55 | ● | - | 83 | 73 | 3 8 | 73 | FR | D | 0 DUG 34 stns, cl 54 54 sd, gr 83 * 83 |
| 2330 | 825 | XIII | 5 | WILSON D | 2113 63 | ● | 6 | 75 | 35 | 3 10 | 55 | FR | D S | 0 to 1 cl, sd, Stns 12 clay 60 sd, stns 72 gr 75 * 72 |
| 2350 | 850 | XIII | 7 | DOUGLAS S | 2113 62 | ● | 6 | 91 | 40 | 3 30 | 60 | FR | D S | 0 to 1 cl, bldr 20 cl 89 89 to 91 * 89 |

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## TABLE OF WATER WELL RECORDS

DATE March 72
RECORDER S. SISSON

| Well No. | Location | CON | LOT | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2278 | N. MONAGHAN TWP 760 | XII | 8 | JOHNSON D | 2113 57 | ● | 24 | 37 | - | - | - | FR | D? | O to 1 cl, stns 23 # .23<br>23 f sd 37 |
| 2284 | 875 | XII | 8 | BROWN D | 2113 60 | ● | 6 | 151 | 78 | 3<br>10 | 130 | FR. | D | O to 1 cl, stns, bldr 30 #145<br>30 cl, stns 60 & 10 Shp 114<br>114 cl, sdstns 145 sd, stns 151 |
| 2243 | 825 | XII | 7 | HUBBLE ER. | 4713 52 | ● | 6 | 136 | 115 | 2<br>7 | 120 | FR | D | O to 1 sd 2 cl, sd, stns 21 f sd 96 # 21<br>96 cl 98 sd 115 coe sd 134 136.<br>134 gr 136 |
| 2230 | 887 | XII | 5 | WEBB JA. | 4713 57 | ● | 6 | 147 | 105 | 2<br>11 | 117 | FR | COM | O to 2 cl, stns 110 sd, cl 115 #147<br>115 cl, stns 135 sd, 144<br>144 gr. 147 |
| 2231 | 835 | XII | 5 | ROODE G. | 4713 58 | ● | - | 70 | 42 | 1½<br>10 | 56 | FR. | D | O DUG 20 cl, stns 55 sd 60 # 70<br>60 cl 67 gr, sd 70 |
| 2229 | 880 | XII | 4 | LILLICO J. | 2113 58 | ● | 6. | 151 | 130 | 2<br>10 | 135 | FR. | D<br>S | O to 1 cl, stns 40 cl 115 #150<br>115 sd 124 cl, stns 135<br>135 sd 144 cl, gr 150 gr 151 |
| 2225 | 875 | XII | 3 | COOERT G | 1415 64 | ● | 6 | 122 | 65 | 3<br>8 | 107 | FR | D | O bldr, cl, gr 60 cl 70. #118<br>70 f sd 80 cl 115 coe sd 122 |
| 2219 | 835 | XII | 2. | GOULD G.R. | 4713 58 | ● | . | 63 | 21 | 1<br>6 | 55 | FR | D | O DUG 23 cl, bldr 61 # 63<br>61 gr 63 |
| 2215 | 830 | XII | 1 | SELKIRK M. | 2104 67 | ● | 6 | 114 | 34 | 3<br>25 | 75 | FR | D<br>S | O to 1 cl, stns 28 cl 58. # 60<br>58 sd 96 cl, muck 110<br>110 coe sd 114 |
| 2087 | 835 | XI | 1 | CROOKALL S | 2113 61 | ● | - | 48. | 12 | 3<br>6 | 38 | FR | D | O DUG 12 cl, stns 47 #47<br>47 gr 48 |
| 2097 | 875 | XI | 2 | GUTMAN H. | 2113 61 | ● | 6 | 157 | 60 | 3<br>16 | 87 | FR | D | O DUG 12 cl, sd, gr 50 #154<br>50 cl, stns 100 f sd 106 gr, sd 143<br>143 f sd 154 gr 157 |
| 2116 | 855 | XI | 5 | POWERS E.A | 4713 52 | ● | 6 | 121 | 110 | 2<br>4 | 110 | FR | D | O to 2 cl, sd, stns 80 #. 120-<br>80 coe 90 cl, stns 120 121<br>120 gr 121 |

ONTARIO WATER RESOURCES COMMISSION

AREA OF SURVEY PETERBOROUGH

COUNTY PETERBOROUGH

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# TABLE OF WATER WELL RECORDS

DATE Mar/72

RECORDER S. SISSON

| Well No. | Location | CON | LOT. | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENNISMORE TWP | | | | | | | | | | | | | |
| 1225 | 890 | I | 1 | BOALI A | 2116 47 | ● | 6 | 51 | 35 | 7 3 | 38 | FR | S | O DUG 42 cl, sd, Stns 48 *48<br>48 gr 51 |
| 1228 | 825 | I | 1 | HOULE D | 2104 66 | ● | 6 | 81 | 18 | 5 3 | 73 | FR | D | O to 1 cl stns 10 gr 40 *68<br>40 cl, gr 68 to 81 |
| 1243 | 815 | II | 4 | KENT C J | 2113 64 | ● | 6 | 54 | 5 | 1 1 | 51 | FR | D | O to 1 gr, sd 16 cl, Stns 19 *.19<br>19 to 54 |
| 1280 | 815 | II | 6 | STAMOUR S | 2104 67 | ● | 6 | 44. | 14 | 3 1 | 21 | FR. | D | O to 1 cl Stns 18 *.21<br>18 gr 20 to 44 |
| 1283 | 815 | II | 7 | GIBSON E. | 4713 63 | ● | 6 | 27. | 7 | 3 2 | 20 | FR | D | O to 2 cl, Stns 24 *27.<br>24 to 27 |
| 1284 | 860 | III | 4 | JAMES J. | 4713 55 | ● | 6 | 43 | 4 | 7 2 | 33 | FR | D | O to 2 cl bldr 18 *.43<br>18 cl, stns 41 to 43 |
| 1305 | 850 | IV | 3 | PARSONS R. | 7516 62 | ● | 6 | 26 | 12 | 5 2 | 24 | FR | D | O sd, gr 17 to 26 *.17 |
| 1308 | 875 | III | 7 | SWIFT E. | 1904 68 | ● | 6 | 61 | 15 | 20 2 | 60 | FR | D | O to 10 cl, to 41 *.41<br>41 to 61 |
| 1315 | 815 | IV | 9 | YOUNG BG. | 1415 63 | ● | 6 | 48 | 5 | 4 2 | 38 | FR | D | O DUG 5 cl, gr 9 *48<br>9 to 48 |
| 1335 | 815 | IV | 11 | PORTER C | 2518 66 | ● | 6 | 60 | 8 | 1 1 | 59 | FR | D | O to 7 to 60 *60 |
| 1332 | 815 | IV | 11 | KEMBELL E. | 2113 64 | ● | 6 | 47 | 14 | 2 1½ | 42 | FR | D | O to 1 cl, gr 22 cl, sd 40 *40<br>40 gr 47 |
| 1349 | 815 | V | 12 | DAVIS R.I | 2113 63 | ● | 6 | 36 | 16 | 2 3 | 32 | FR. | D | O DUG 17 cl, cl 22 *35<br>22 cl, cl, stns 32 gr 36 |

AREA OF SURVEY PETERBOROUGH

COUNTY PETERBOROUGH

P15.

# ONTARIO WATER RESOURCES COMMISSION

## TABLE OF WATER WELL RECORDS

DATE Mar /72

RECORDER S S. Sisson

| Well No. | Location | Con | Lot | Owner | Driller | Well Type | Well Diameter | Depth | Static Level | Pumping Rate | Pumping Level | Quality | Use | Remarks, Log, etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1344 | ENNISMORE TWP 910 | IV | 9 | RAU G. | 4713 5[illegible] | ● | 6 | 36 | 6 | 3 (2) | 30 | FR | D. | o to 2 cl, stns 20 20 cl 34 lo 36 *36 |
| 1339 | 825 | V | 7 | HARRINGTON T | 4[illegible]3 54 | ● | 6 | 90 | 20 | 2 (2) | 85 | FR | D | o to 52 cl 10 10 lo 90 *90 |
| 1337 | 875 | V | 4 | MORIARITY H | 1904 66 | ● | 6 | 91 | 25 | 1 (2) | 91 | FR | D S | o D+G 25 cl 28 lo 91 *94 |
| 1353 | 890 | VI | 9 | FERGUSON G. | 2113 61 | ● | 6 | 45 | 5 | 1 (3) | 44 | FR | D | o to 1 cl lo 45 *15 |
| 1358 | 820 | VI | 14 | PENROSE D S | 2104 66 | ● | 6 | 43 | 27 | 6 (2) | 35 | FR | D | o to 1 cl stns 21 21 cl 40 gr 43 * 40 |
| 1361 | 820 | VII | 15 | BRODIE J | 2113 58 | ● | 6 | 43 | 7 | 2 (2) | 32 | FR | D | o to 2 cl, stns 20 20 cl, sh 42 sh 43 *.39 |
| 1375 | 860 | VII | 10 | SS # 1 SCHOOL | 4104 59 | ● | 6 | 60 | 21 | 2 (2½) | 53 | FR | PS | O cl, sd, stns 13 cl, stns 23 23 bldr 27 lo 60 * 36 56. |
| 1369 | 930 | VII | 7 | YOUNG J.J. | 2113 57 | ● | 6 | 50 | 29 | 1 (3) | 49 | FR | D | o to 1 cl, stns 28 28 cl, sh 33 lo 50 *42 |
| 1837 | TWP OF SMITH | IV | 2. | WM. REINHERT | 3345 69 | ● | 6¼ | 54 | 29 | 10 (2) | 30 | FR | D | o to 1 cl, gr, stns, cl 20. 20 sdygr, stns 45 45 sdygr. sd 54 * 50-57 |

ONTARIO WATER RESOURCES COMMISSION

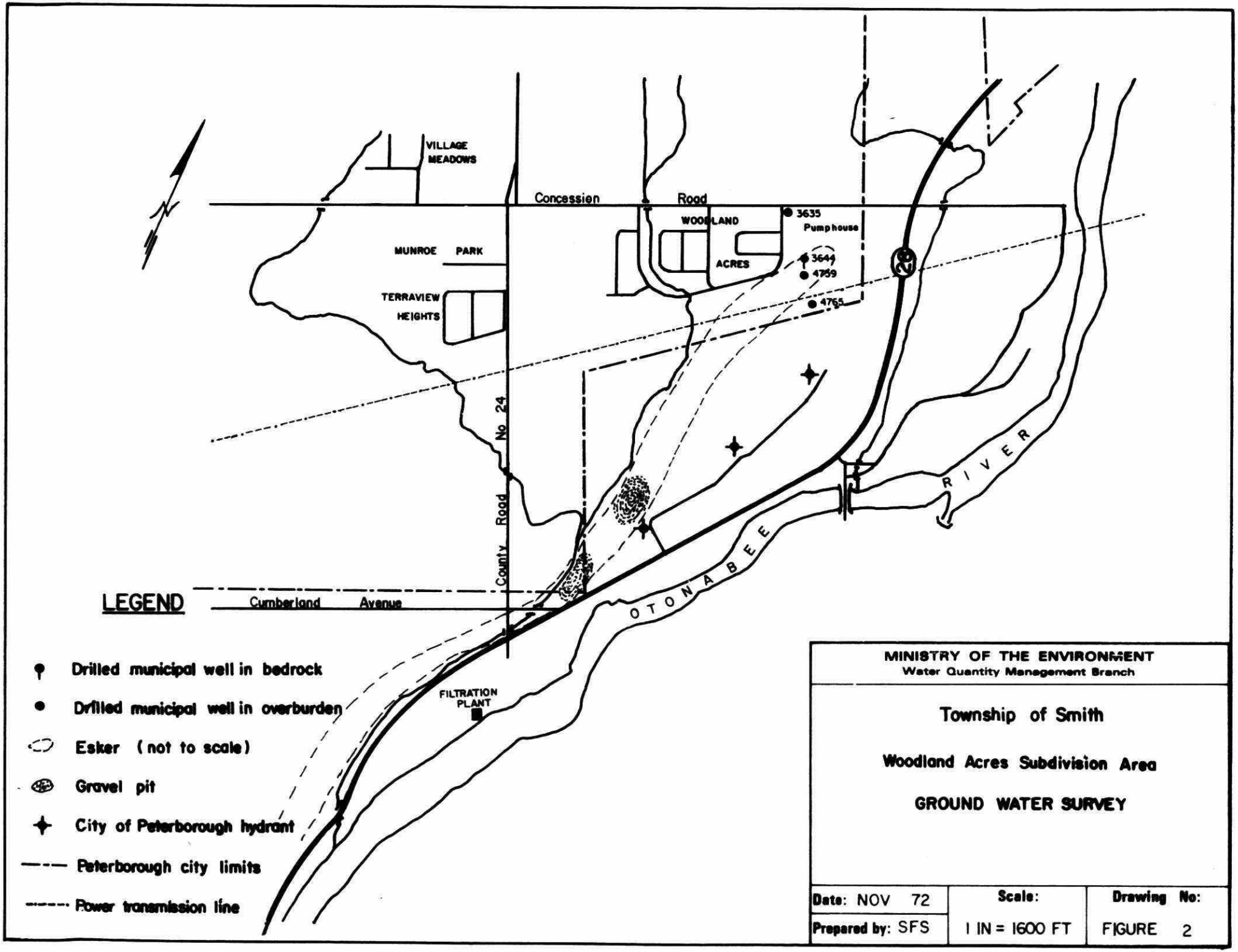
# TABLE OF WATER ANALYSES

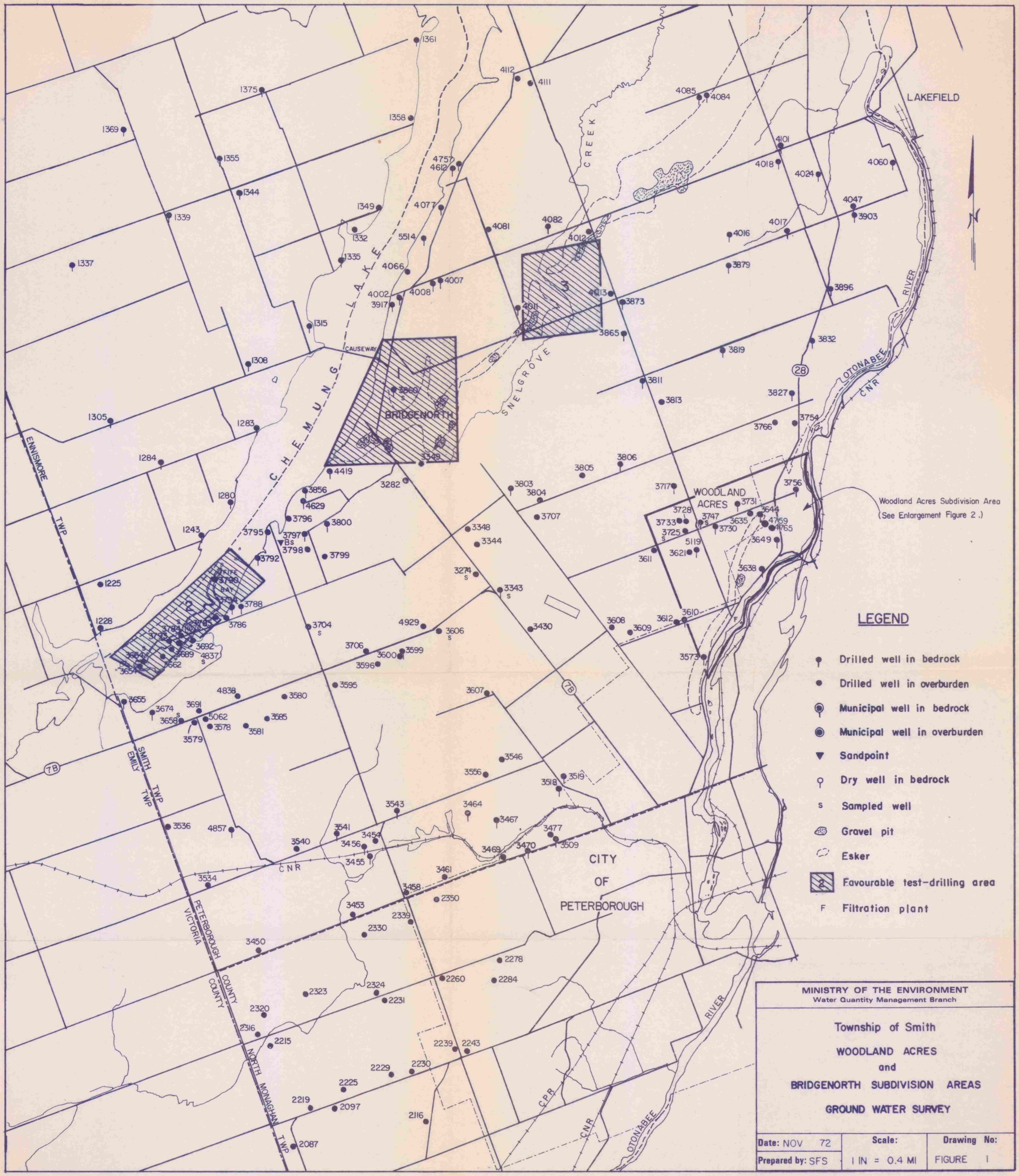
TABLE 2

AREA OF SURVEY TOWNSHIP OF SMITH.

DATE 23 OCT, 1972

| Source and Number | Location and Owner | Date Sampled | Temperature in °F | pH at 25° | Mineral Constituents in parts per million (ppm) | | | | | | | | | | | Alkalinity as ppm $CaCO_3$ | Hardness as ppm $CaCO_3$ | | Total Dissolved Solids in ppm | Specific Conductance (micromhos at 25°C) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Carbonate ($CO_3$) | Bicarbonate ($HCO_3$) | Sulphate ($SO_4$) | Chloride (Cl) | Iron (Fe) | Fluoride (F) | Nitrate as N ($NO_3$) | | Total | Calcium | | | TYPE OF WELL |
| 3704 | D. ELLIS | 4 APR 72 | | 7.5 | 79 | 16 | 4 | 1.4 | | | 27 | 7 | 0.10 | | 1.8 | 282 | 260 | | 290 | | OVERBURDEN DEPTH 98' |
| 3664 | D. HATTON | " | | 7.7 | 82 | 10 | 4 | 0.8 | | | 26 | 20 | 0.05 | | 4.8 | 178 | 238 | | 300 | | OVERBURDEN DEPTH 89' |
| 4837 | W REINHERT | " | | 7.7 | 99 | 6 | 3 | 0.6 | | | 47 | 11 | 0.15 | | 4.5 | 193 | 274 | | 310 | | OVERBURDEN DEPTH 54' |
| 3784 | R. SIBLEY | " | | 7.3 | 137 | 7 | 7 | 1.1 | | | 24 | 67 | 0.25 | | 3.8 | 251 | 370 | | 490 | | OVERBURDEN DEPTH 43' |
| 3800 | BRIDGENORTH SCHOOL | " | | 7.4 | 110 | 17 | 10 | 2.0 | | | 46 | 26 | 0.10 | | 1.1 | 279 | 346 | | 400 | | BEDROCK DEPTH 52' IN ROCK 10' |
| B | C. GODFREY | " | | 7.9 | 94 | 4 | 4 | 0.6 | | | 53 | 11 | 1.2 | | 0.02 | 193 | 254 | | 310 | | OVERBURDEN SAND POINT |
| 3274 | GILMORE CHURCH | " | | 8.0 | 110 | 6 | 6 | 1.0 | | | 39 | 14 | 1.2 | | 2.5 | 252 | 302 | | 330 | | OVERBURDEN DEPTH 56' |
| 3343 | BLEWETT -DOUGHTY | " | | 8.0 | 42 | 15 | 16 | 1.6 | | | <5 | 3 | 0.50 | | 0.01 | 179 | 146 | | 210 | | BEDROCK DEPTH 135' IN ROCK 3' |
| 3725 | BB SMOOK | " | | 8.0 | 49 | 4 | 3 | 15 | | | <5 | 8 | 0.10 | | 2.6 | 104 | 126 | | 160 | | OVERBURDEN DEPTH 47' |
| 3747 | PUBLIC SCHOOL | " | | 7.9 | 48 | 23 | 12 | 1.8 | | | 16 | 11 | 0.35 | | 0.45 | 203 | 214 | | 250 | | BEDROCK DEPTH 99 IN ROCK 1' |
| 3606 | M. ANDREWS | " | | 7.9 | 168 | 23 | 90 | 2.7 | | | 45 | 280 | <0.05 | | 3.7 | 262 | 516 | | 890 | | OVERBURDEN DEPTH 66' |
| 3658 | J. SHAUGHNESSY | " | | 7.4 | 54 | 2 | 90 | 5.7 | | | 30 | 61 | 0.05 | | 3.4 | 226 | 144 | | 420 | | OVERBURDEN DEPTH 111' |


VILLAGE MEADOWS
Concession Road
WOODLAND ACRES
3635
Pumphouse
3644
4759
4765
MUNROE PARK
TERRAVIEW HEIGHTS
No. 24
County Road
Cumberland Avenue
OTONABEE RIVER
FILTRATION PLANT
LEGEND
Drilled municipal well in bedrock
Drilled municipal well in overburden
Esker (not to scale)
Gravel pit
City of Peterborough hydrant
Peterborough city limits
Power transmission line
MINISTRY OF THE ENVIRONMENT
Water Quantity Management Branch
Township of Smith
Woodland Acres Subdivision Area
GROUND WATER SURVEY
Date: NOV 72
Prepared by: SFS
Scale: 1 IN = 1600 FT
Drawing No: FIGURE 2




MINISTRY OF THE ENVIRONMENT
Water Quantity Management Branch

Township of Smith

WOODLAND ACRES
and
BRIDGENORTH SUBDIVISION AREAS
GROUND WATER SURVEY

| Date: NOV 72 | Scale: | Drawing No: |
|---|---|---|
| Prepared by: SFS | 1 IN = 0.4 MI | FIGURE 1 |

TD
227
.S65
1973

Township of Smith, Woodland Acres and Bridgenorth subdivision areas / McKenna, P. F.

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